

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-113793

(43)Date of publication of application : 07.05.1996

(51)Int.Cl.

C10M169/02  
// (C10M169/02  
C10M115:08  
C10M105:36  
C10M105:38 )  
C10N 20:02  
C10N 40:02  
C10N 50:10

(21)Application number : 06-275552

(71)Applicant : NIPPON SEIKO KK  
KYODO YUSHI KK

(22)Date of filing : 17.10.1994

(72)Inventor : YOKOUCHI ATSUSHI  
KOIZUMI HIDEKI  
ISO KENICHI  
NAKA MICHIHARU  
ENDO TOSHIAKI  
SUZUKI YOICHI

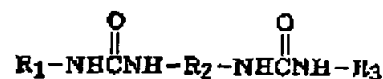
## (54) GREASE COMPOSITION

(57)Abstract:

PURPOSE: To obtain a grease composition excellent in grease life under high- temperature and high-speed conditions, release resistance, etc., in bearing and suitable for outer ring roll sealing type ball bearing by adding an urea-based thickener at a specific ratio to a base oil consisting essentially of an ester oil.

CONSTITUTION: This composition is obtained by blending (A) a base oil having 50-200mm<sup>2</sup>/sec dynamic viscosity at 40° C and containing at least ≥10wt.% of an ester oil (preferably ester oil selected from a hindered ester oil and an aromatic ester oil) with (B) 15-35wt.% of a diurea compound of the formula (R<sub>2</sub> is an aromatic hydrocarbon; R<sub>1</sub> and R<sub>3</sub> are each a 6-12C aromatic hydrocarbon or a 6-20C aliphatic hydrocarbon, with the proviso that the ratio of the aromatic hydrocarbon amount in total amounts of R<sub>1</sub> and R<sub>3</sub> is 50-100mol%).

Furthermore, at least one kind of oil among pentaerythritol ester oil, trimethylolpropane ester oil, etc., is included in the ester oil component of the component A and the content is preferably 50-100%.



## LEGAL STATUS

[Date of request for examination]

05.12.2000

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than  
the examiner's decision of rejection or  
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office